Attorney's Docket No.: 08935-245001 / M-4962 Applicant: James J. Cervera et al.

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

(Currently amended) A primary alkaline battery, comprising: 1. a cathode comprising

manganese dioxide and

carbon particles comprising expanded graphite particles and non-expanded graphite particles, the expanded graphite particles having a kerosene absorption greater than about 2.7 3.6 milliliters per gram;

an anode;

a separator; and an alkaline electrolyte.

- (Cancelled) 2.
- (Cancelled) 3.
- (Original) The battery of claim 1, wherein the expanded graphite particles have a 4. kerosene absorption greater than about 4.0 milliliters per gram.
- (Original) The battery of claim 1, wherein the expanded graphite particles have a 5. kerosene absorption greater than about 4.5 milliliters per gram.
- (Original) The battery of claim 1, wherein the expanded graphite particles have a 6. kerosene absorption greater than about 5.0 milliliters per gram.

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7. (Currently amended) The battery of claim 1, wherein the <u>carbon particles</u> comprise eathode comprises between about 75% and 25% of expanded graphite particles by weight and between about 25% and 75% of non-expanded graphite particles by weight.

- 8. (Currently amended) The battery of claim 1, wherein the <u>carbon particles</u> comprise eathode comprises between about 60% and 40% of expanded graphite particles by weight and between about 40% and 60% of non-expanded graphite particles by weight.
- 9. (Original) The battery of claim 1, wherein the non-expanded graphite particles have an average particle size of less than about 40 microns.
 - 10. (Currently amended) A primary alkaline battery, comprising: a cathode comprising

manganese dioxide and

carbon particles comprising expanded graphite particles and non-expanded graphite particles, the expanded graphite particles having a BET surface area of $\frac{15 \text{ m}^2}{\text{g}}$;

an anode;

a separator; and

an alkaline electrolyte.

- 11. (Currently amended) The battery of claim 10, wherein the expanded graphite particles have a BET surface area of from greater than about 10 m²/g to about 15 m²/g.
 - 12. (Cancelled)
 - 13. (Cancelled)

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14. (Original) The battery of claim 10, wherein the cathode comprises between about 75% and 25% of expanded graphite particles by weight and between about 25% and 75% of non-expanded graphite particles by weight.

- 15. (Original) The battery of claim 10, wherein the cathode comprises between about .60% and 40% of expanded graphite particles by weight and between about 40% and 60% of non-expanded graphite particles by weight.
- 16. (Original) The battery of claim 10, wherein the non-expanded graphite particles have an average particle size of less than about 40 microns.

17-21. (Cancelled)

22. (Currently amended) A primary alkaline battery, comprising: a cathode comprising

manganese dioxide and

carbon particles comprising expanded graphite particles and non-expanded graphite particles, the expanded graphite particles having a D₅₀ particle size <u>that is</u> greater than about 35 microns <u>40 microns and less than or equal to about 100 microns</u>;

an anode;
a separator; and
an alkaline electrolyte.

23. (Cancelled)

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24. (Currently amended) The battery of claim 22, wherein the expanded graphite particles have a D₅₀ particle size that is greater than between about 40 microns and less than or equal to about 50 microns.

- 25. (Currently amended) The battery of claim 22, wherein the <u>carbon particles comprise</u> cathode comprises between about 75% and 25% of expanded graphite particles by weight and .between about 25% and 75% of non-expanded graphite particles by weight.
- 26. (Currently amended) The battery of claim 22, wherein the <u>carbon particles comprise</u> eathode comprises between about 60% and 40% of expanded graphite particles by weight and between about 40% and 60% of non-expanded graphite particles by weight.
 - 27. (Cancelled)
 - 28. (Original) A primary alkaline battery, comprising:

a cathode comprising

manganese dioxide and

expanded graphite particles having a kerosene absorption greater than about 4.4 milliliters per gram;

an anode;

a separator; and

an alkaline electrolyte.

- 29. (Original) The battery of claim 28, wherein the graphite particles have a kerosene absorption between about 5 and about 6 milliliters per gram.
- 30. (Original) The battery of claim 28, wherein the graphite particles have a kerosene absorption between about 5.2 and about 5.6 milliliters per gram.

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31. (Original) The battery of claim 28, wherein the graphite particles have a kerosene absorption about 5.4 milliliters per gram.

- 32. (Original) The battery of claim 28, wherein the cathode comprises between about 2% and about 10% of expanded graphite particles by weight.
- 33. (Original) The battery of claim 28, wherein the cathode comprises between about 3% and about 6% of expanded graphite particles by weight.
- 34. (Original) The battery of claim 28, wherein the cathode comprises between about 80% and about 95% of manganese dioxide by weight.
- 35. (Original) The battery of claim 28, wherein the cathode comprises between about 85% and about 90% of manganese dioxide by weight.
- 36. (Original) The battery of claim 28, wherein the cathode further comprises nonexpanded graphite particles.
- 37. (Currently amended) The battery of claim 36, wherein the carbon particles comprise eathode comprises between about 75% and 25% of expanded graphite particles by weight and between about 25% and 75% of non-expanded graphite particles by weight.
- 38. (Currently amended) The battery of claim 36, wherein the carbon particles comprise eathode comprises between about 60% and 40% of expanded graphite particles by weight and between about 40% and 60% of non-expanded graphite particles by weight.
 - 39. (Original) A primary alkaline battery, comprising:

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a cathode comprising

manganese dioxide and

expanded graphite particles having a total pore volume greater than about

0.1 milliliter per gram;

an anode;

a separator; and

an alkaline electrolyte.

- 40. (Original) The battery of claim 39, wherein the expanded graphite particles have a total pore volume greater than about 0.15 milliliter per gram.
- 41. (Original) The battery of claim 39, wherein the expanded graphite particles have a total pore volume greater than about 0.2 milliliter per gram.
- 42. (Original) The battery of claim 39, wherein the cathode comprises between about 2% and about 10% of expanded graphite particles by weight.
- 43. (Original) The battery of claim 39, wherein the cathode comprises between about 3% and about 6% of expanded graphite particles by weight.
- 44. (Original) The battery of claim 39, wherein the cathode comprises between about 80% and about 95% of manganese dioxide by weight.
- 45. (Original) The battery of claim 39, wherein the cathode comprises between about 85% and about 90% of manganese dioxide by weight.
- 46. (Original) The battery of claim 39, wherein the cathode further comprises non-expanded graphite particles.

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47. (Currently amended) The battery of claim 46, wherein the <u>carbon particles comprise</u> eathode comprises between about 75% and 25% of expanded graphite particles by weight and between about 25% and 75% of non-expanded graphite particles by weight.

- 48. (Currently amended) The battery of claim 46, wherein the <u>carbon particles comprise</u> eathode comprises between about 60% and 40% of expanded graphite particles by weight and . between about 40% and 60% of non-expanded graphite particles by weight.
- 49. (Original) The battery of claim 46, wherein the non-expanded graphite particles have an average particle size of less than about 40 microns.